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Building & Highway Material Testing Laboratory

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KJ/W.No.14/GSB-I/GR/2017-18 Date 13.04.2017

TEST REPORT ON GRADATION FOR COARSE GRADED GARNULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of work	:	Improvements and Asphalting to 10th Cross (Between 8th Main and Pipe line road) Bhuvaneshwari Nagara in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/05/2017-18 Dated: 10.04.2017
* Sample ID	:	Coarse Graded-I
Technical Reference	:	IS : 2720 (Part - 4) 1985 (RA-2010), MORTH Table : 400-2
Date of Testing	:	13.04.2017

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Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	0	0	0	100	100
26.5	1405	1405	28.10	71.90	55-75
4.75	2550	3955	79.10	20.90	10-30
0.075	925	4880	97.60	2.40	<10
PAN	120				
Total	5000				

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* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading I

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/KJ/W.No.14/WMM/Gradation/2017-18 19.04.2017

TEST REPORT ON GRADATION OF WET MIX MACADAM

*** Customer**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
*** Name of Work**	:	Improvements and Asphalting to 10th Cross (Between 8th Main and Pipe line road) Bhuvaneshwari Nagara in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/TDSD/PR/05/2017-18 Dated: 10.04.2017
Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386 (part-1)1963 (RA-2016)
Date of Testing	:	19.04.2017

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Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-11
53	0	0	0	100	100
45	110	110	2.2	97.8	95-100
22.4	1605	1715	34.30	65.70	60-80
11.2	1020	2735	54.70	45.30	40-60
4.75	585	3320	66.40	33.60	25-40
2.36	535	3855	77.10	22.90	15-30
0.600	545	4400	88.00	12.00	8-22
0.075	500	4900	98.00	2.00	0-8

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KJ/W.No.14/WMM/Shape.T/2017-18 19.04.2017

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of Work	:	Improvements and Asphalting to 10th Cross (Between 8th Main and Pipe line road) Bhuvaneshwari Nagara in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/05/2017-18 Dated: 10.04.2017
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386(Part 1) 1963 (RA 2016)
Date of Testing	:	19.04.2017

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Sl.No.	Description	Result
1	Flakiness Index	11.56%
2	Elongation Index	13.90%
3	Combined Flakiness & Elongation Index	25.46%

*Information is furnished by the Customer/Representative.

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Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/KJ/W.No.14/BC/AIV/2017-18 02.05.2017

TEST REPORT ON IMPACT VALUE OF AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
*** Name of Work**	:	Improvements and Asphalting to 10th Cross (Between 8th Main and Pipe line road) Bhuvaneshwari Nagara in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/TDSD/PR/05/2017-18 Dated: 10.04.2017
*** Sample ID**	:	Hot mix plant, Bangalore.
*** Type of Mix**	:	Bituminous Concrete
Technical Reference	:	IS: 2386 (Part- 4)-1963 (RA-2011)
Date of Testing	:	02.05.2017

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Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	80	81	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	303	
4	Aggregate Impact value = percent fines 100* (W2/W1) percent	20.94	21.09	**21.02**

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Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

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Job No: CTCE/BBMP/KJ/W.No.14/BC/Bitumen/2017-18

03.05.2017

TEST REPORT ON BITUMEN CONTENT OF BITUMINOUS CONCRETE MIX

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Jagadish,** #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of Work	:	Improvements and Asphalting to 10th Cross (Between 8th Main and Pipe line road) Bhuvaneshwari Nagara in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/05/2017-18 Dated: 10.04.2017
* Sample ID	:	10th Cross Bhuvaneshwari Nagara, Ward No.14
Technical Reference	:	IRC:SP:11-1984
Date of Testing	:	03.05.2017

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BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	473.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	26.50
7. Bitumen content in %	5.20	5.30
8. Average	**5.25**	

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